

ABSTRACT *of the Disclosure*

5 A process for the heterotrophic or predominantly
heterotrophic production of whole-celled or extracted
microbial products with a high concentration of omega-3 highly
unsaturated fatty acids, producible in an aerobic culture
under controlled conditions using biologically pure cultures
of heterotrophic single-celled fungi microorganisms of the
10 order Thraustochytriales. The harvested whole-cell microbial
product can be added to processed foods as a nutritional
supplement, or to fish and animal feeds to enhance the omega-3
highly unsaturated fatty acid content of products produced
from these animals. The lipids containing these fatty acids
15 can also be extracted and used in nutritional, pharmaceutical
and industrial applications.

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